NAME OF WORK:- Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in ward no.11.

First and Final Bill

Quality Control Reports

QC ABSTRACT

AME OF WORK: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area Ward No.11 Kuvempunagara."

NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Prism (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	3 set /16-30 cum	17.21	6	6
9	RCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	54.01	8	8
10	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	13 set /450-500 cum	470.28	24	24
11	GSB	SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-12-09-25** **Date: 19-04-21**

Project Name : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/130/2019-20

Date of Receipt : 16-04-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification .
IS 4031 (Part 1,2 3,4,5, 6,11) 1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 17-04-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.08	_
2	Finess by Air permeablity method (m^2/kg,Min)	298.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-12-09-25** **Date: 15-05-21**

Project Name : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/130/2019-20

Date of Receipt : 16-04-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 17-04-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-09-25** **Date: 19-04-21**
Project Name	:	"Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/130/2019-20
Date of Receipt	:	16-04-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-04-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	189	189	1.3	98.7	90-100
3	20 mm	7284	7473	49.8	50.2	30-70
4	10 mm	4089	11562	77.1	22.9	10-35
5	4.75 mm	3001	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-12-09-25** **Date: 19-04-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.42	_
5	Bulk Density(Compacted) (Kg/l)	1.48	_
6	Water Absorption(%)	0.21	_

* The results obtained are satisfactory as per standard requirements.

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Vidyaranyapura Sub-Division
Bruhath Bangalore Mahanagara Palike

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-09-25** **Date: 19-04-21**
Project Name	:	"Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/130/2019-20
Date of Receipt	:	16-04-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-04-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3050	3249	65.0	35.0	25-55
4	4.75 mm	1502	4751	95.0	5.0	0-10
5	Pan	249	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-12-09-25** **Date: 19-04-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.62	-
4	Bulk Density(Loose) (Kg/l)	1.48	-
5	Bulk Density(Compacted) (Kg/l)	1.55	-
6	Water Absorption(%)	0.27	-
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	23.1	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface

* The results obtained are satisfactory as per standard requirements.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-12-09-25** **Date: 19-04-21**

Project Name : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/130/2019-20

Date of Receipt : 16-04-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 16-04-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

ID	:	CP-2020-12-09-25 **Date: 19-04-21**
ect Name	:	"Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP EE BTP WO 130 2019-20
e of Receipt	:	16-04-21
ple Type	:	Fine Aggregate
erence to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
e of test	:	16-04-21
al weight taken	:	1000 grams

Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
					Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
10 mm	0	0	0.0	100.0	100	100	100	100
4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
Pan	80	1000	100.0	0.0	---	---	---	---

sult : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

ab ID : CP-2020-12-09-25

Date: 19-04-21

HYSICAL PROPERTIES

.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

he results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division

FOR CIVIL Pro.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

ab ID	:	CP-2020-12-09-25 **Date: 03-05-21**
roject Name	:	"Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."
gency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
ustomer's Reference	:	BBMP/EE/BTP/WO/130/2019-20
ate of Receipt	:	29-04-21
ample Type/Size	:	Solid concrete blocks size (400X200X200)mm
eference to BIS codes	:	IS 2185 (Part 1) 2005(RA 2010) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B. Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10. Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
ate of test	:	29-04-21

LOCK DENSITY:

SL No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	199	202	15999	31.227	1951.8	2002.5	Not less than 1800Kg/m^3
2	402	199	201	16080	32.606	2027.8		
3	404	202	201	16403	33.266	2028.0		

VATER ABSORPTION:

SL No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Date: 03-05-21

ID : CP-2020-12-09-25

MENSION ANALYSIS

No	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	202	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	200	203	
3	401	202	201	
4	402	202	199	
5	403	201	203	
6	401	203	201	
7	399	202	199	
8	404	201	202	
9	400	202	199	
10	402	201	202	
11	402	202	201	
12	403	200	203	
13	402	202	199	
14	402	201	203	
15	401	201	202	
16	400	200	203	
17	402	200	202	
18	399	202	203	
19	404	202	199	
20	401	201	199	
verage of 20	**402**	**201**	**201**	

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Lab ID : CP-2020-12-09-25 Date: 03-05-21

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	202	81301	362.8	4.5	4.6
2	401	200	80249	374.9	4.7	
3	401	202	81076	390.6	4.8	
4	402	202	81160	372.9	4.6	
5	403	201	81283	384.7	4.7	
6	401	203	81386	375.9	4.6	
7	399	202	80611	365.5	4.5	
8	404	201	81067	369.3	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

The results obtained are satisfactory as per standard requirements

ASSISTANT EXECUTIVE ENGINEER
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TEST RESULTS OF STEEL

ID	:	CP-2020-12-09-25 **Date: 17-04-21**
ct Name	:	"Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."
cy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
mer's Reference	:	BBMP/EE/BTP/WO/130/2019-20
f Receipt	:	16-04-21
le Type	:	Sunvik
nce to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
f test:	:	16-04-21

Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
		(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

sults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhat Bangalore

FOR CIVIL Pro.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 05-05-21

	:	**CP-2020-12-09-25**
ame	:	"Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
's Reference	:	BBMP/EE/BTP/WO/130/2019-20
eceipt	:	01-05-21
ype/Size	:	Precast Cover Slab (100mm)
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
st	:	01/05/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

ts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhat Bengaluru Mahanagara Palike

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R KARTHIK RECHAN
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Certificate No : TC-5548

Format No: CP/TL/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25

Date: 12/05/2021

ame : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

eceipt : 07-05-21

ID : Flagging Course Concrete, (2nd Cross Road)

ype /Size : 150X150X150 mm

rade/Age : M15 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 12/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
lagging Course Concrete	M15	05/05/2021	12/05/2021	150.39 X 151.34 X 150.65	22759	8.928	292.5	12.9	12.5
lagging Course Concrete	M15	05/05/2021	12/05/2021	151.69 X 149.22 X 151.78	22634	8.530	278.0	12.3	
lagging Course Concrete	M15	05/05/2021	12/05/2021	150.48 X 151.42 X 150.73	22787	9.019	283.1	12.4	

s obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 02/06/2021**

ame : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

eceipt : 07-05-21

ID : Flagging Course Concrete, (2nd Cross Road)

ype /Size : 150X150X150 mm

rade/Age : M15 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 02/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
agging Course Concrete	M15	05/05/2021	02/06/2021	150.17 X 149.03 X 150.64	22381	**8.968**	381.0	17.0	17.4
agging Course Concrete	M15	05/05/2021	02/06/2021	149.25 X 150.01 X 151.17	22389	**8.460**	401.6	17.9	
agging Course Concrete	M15	05/05/2021	02/06/2021	151.51 X 150.75 X 150.42	22840	**8.789**	393.6	17.2	

s obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TE/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/05/2021

: CP-2020-12-09-25

ame : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

eceipt : 07-05-21

ID : Flagging Course Concrete, (3rd Cross Road Tippu Sultan Road)

ype /Size : 150X150X150 mm

rade/Age : M15 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 12/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
lagging Course Concrete	M15	05/05/2021	12/05/2021	149.11 X 150.94 X 151.13	22507	8.928	278.9	12.4	12.3
lagging Course Concrete	M15	05/05/2021	12/05/2021	149.16 X 149.38 X 150.05	22282	8.530	267.8	12.0	
lagging Course Concrete	M15	05/05/2021	12/05/2021	149.61 X 149.84 X 149.47	22418	9.019	279.9	12.5	

ts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division

CIVIL Pro BANGALORE Sig..... Date.....

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R KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2020-12-09-25	Date: 02/06/2021
t Name	: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."	
y	: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010	
ner's Reference	: BBMP/EE/BTP/WO/130/2019-20	
f Receipt	: 07-05-21	
ner ID	: Flagging Course Concrete, (3rd Cross Road Tippu Sultan Road)	
Type /Size	: 150X150X150 mm	
grade/Age	: M15 / 28 Days Compressive Strength	
nce to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
test	: 02/06/2021	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Flagging Course Concrete	M15	05/05/2021	02/06/2021	151.02 X 149.07 X 150.21	22513	**8.968**	394.0	17.5	17.4
Flagging Course Concrete	M15	05/05/2021	02/06/2021	150.40 X 150.65 X 150.78	22658	**8.460**	396.7	17.5	
Flagging Course Concrete	M15	05/05/2021	02/06/2021	149.93 X 150.51 X 150.24	22566	**8.789**	390.9	17.3	

ults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division
Bruhat Bangalore Mahanagara Palike

CIVIL Pro Sig. Date. BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 12/05/2021**

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Reference : BBMP/EE/BTP/WO/130/2019-20

ipt : 07-05-21

: Flagging Course Concrete, (4th Cross Road (TP Kailasm Road))

e /Size : 150X150X150 mm

le/Age : M15 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 12/05/2021

ntification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
ging Course Concrete	M15	05/05/2021	12/05/2021	150.46 X 149.87 X 151.46	22549	**8.928**	273.7	12.1	12.3
ging Course Concrete	M15	05/05/2021	12/05/2021	149.60 X 149.95 X 149.72	22432	**8.530**	278.1	12.4	
ging Course Concrete	M15	05/05/2021	12/05/2021	151.17 X 151.43 X 151.49	22891	**9.019**	282.9	12.4	

obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig. ..... Date ..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/06/2021

	:	CP-2020-12-09-25
ame	:	"Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
r's Reference	:	BBMP/EE/BTP/WO/130/2019-20
eceipt	:	07-05-21
r ID	:	Flagging Course Concrete, (4th Cross Road (TP Kailasm Road))
ype /Size	:	150X150X150 mm
rade/Age	:	M15 / 28 Days Compressive Strength
e to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
est	:	02/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Flagging Course Concrete	M15	05/05/2021	02/06/2021	151.07 X 150.55 X 150.07	22747	8.968	388.9	17.1	17.2
Flagging Course Concrete	M15	05/05/2021	02/06/2021	150.98 X 149.13 X 149.80	22515	8.460	383.7	17.0	
Flagging Course Concrete	M15	05/05/2021	02/06/2021	151.88 X 151.01 X 150.53	22936	8.789	402.1	17.5	

lts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 05/05/2021**

ame : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

eceipt : 30-04-21

ID : Drain Bottom Raft Concrete, (Church Road (9th Cross Road))

ype /Size : 150X150X150 mm

rade/Age : M20 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 05/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	150.88 X 149.28 X 149.97	22524	**9.024**	406.3	18.0	18.3
ain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	150.65 X 151.21 X 149.22	22781	**9.008**	431.1	18.9	
ain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	149.89 X 150.20 X 149.56	22513	**8.698**	406.0	18.0	

ts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 26/05/2021**

ame : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

r's Reference : BBMP/EE/BTP/WO/130/2019-20

teceipt : 30-04-21

r ID : Drain Bottom Raft Concrete, (Church Road (9th Cross Road))

ype /Size : 150X150X150 mm

rade/Age : M20 / 28 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 26/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
rain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	149.22 X 150.51 X 151.56	22459	**9.026**	526.2	23.4	22.9
rain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	149.41 X 150.74 X 151.10	22522	**8.186**	496.8	22.1	
rain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	151.90 X 149.48 X 149.66	22705	**8.982**	524.6	23.1	

lts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2020-12-09-25	**Date: 08/05/2021**
ame	: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."	
	: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010	
's Reference	: BBMP/EE/BTP/WO/130/2019-20	
eceipt	: 03-05-21	
ID	: Drain Side Wall Concrete,(Government School Road 10th Cross Road)	
ype /Size	: 150X150X150 mm	
rade/Age	: M20 / 7 Days Compressive Strength	
to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
st	: 08/05/2021	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
rain Side Wall Concrete	M20	01/05/2021	08/05/2021	150.07 X 150.41 X 150.69	22571	**9.024**	424.6	18.8	18.6
rain Side Wall Concrete	M20	01/05/2021	08/05/2021	149.72 X 149.60 X 151.66	22398	**9.008**	410.2	18.3	
rain Side Wall Concrete	M20	01/05/2021	08/05/2021	151.59 X 150.48 X 150.33	22811	**8.698**	427.9	18.8	

ts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/05/2021

ame : CP-2020-12-09-25

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

eceipt : 03-05-21

ID : Drain Side Wall Concrete.(Government School Road 10th Cross Road)

ype /Size : 150X150X150 mm

rade/Age : M20 / 28 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5

st : 29/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	150.66 X 149.89 X 150.95	22582	9.026	536.7	23.8	23.3
Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	149.71 X 149.06 X 149.47	22316	8.186	507.9	22.8	
Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	151.97 X 150.17 X 150.85	22821	8.982	531.4	23.3	

lts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhat Bangalore Mahanagara Palike

CIVIL Pro Sig. Date BANGALORE

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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

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TEST REPORT OF CEMENT CONCRETE CUBES

	: CP/2020/12/09/25	**Date: 08/05/2021**
same	: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara"	
	: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010	
r's Reference	: BBMP/EE-BTP/WO/130/2019-20	
Receipt	: 01/05/21	
r ID	: Drain Side Wall Concrete (Government School Road 10th Cross Road)	
Type /Size	: 150X150X150 mm	
Grade/Age	: M20 / 7 Days Compressive Strength	
e to BIS codes	: IS: 516 - 1959 'Methods of Tests for Strength of Concrete' CL5	
est	: 08/05/2021	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	150.55 X 149.27 X 150.17	22473	**9.024**	426.7	19.0	18.7
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	149.70 X 149.81 X 149.38	22427	**9.008**	409.7	18.3	
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	151.43 X 151.70 X 151.43	22972	**8.698**	430.8	18.8	

lts obtained are satisfactory as per standard requirements

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division
Bruhat Bangalore Mahanagara Palike

CIVIL Pro Sig. ..... Date ..... BANGALORE

FOR CIVIL Pro.

K KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/05/2021

: CP-2020-12-09-25

ame : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

eceipt : 03-05-21

ID : Drain Side Wall Concrete.(Government School Road 10th Cross Road)

ype /Size : 150X150X150 mm

rade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 29/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
rain Side Wall Concrete	M20	01/05/2021	29/05/2021	149.52 X 151.56 X 150.48	22662	**9.026**	539.1	23.8	23.4
rain Side Wall Concrete	M20	01/05/2021	29/05/2021	149.55 X 150.86 X 151.74	22560	**8.186**	508.2	22.5	
rain Side Wall Concrete	M20	01/05/2021	29/05/2021	149.85 X 151.92 X 149.66	22766	**8.982**	545.3	24.0	

ts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/05/2021

: CP-2020-12-09-25

ame : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

eceipt : 06-05-21

ID : Drain Side Wall Concrete.(10th cross to Church Road)

ype /Size : 150X150X150 mm

rade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 10/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
rain Side Wall Concrete	M20	03/05/2021	10/05/2021	149.80 X 151.95 X 150.84	22763	9.024	429.5	18.9	18.4
rain Side Wall Concrete	M20	03/05/2021	10/05/2021	149.33 X 151.79 X 151.28	22667	9.008	414.4	18.3	
rain Side Wall Concrete	M20	03/05/2021	10/05/2021	150.26 X 150.31 X 149.37	22585	8.698	409.0	18.1	

s obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R.KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 31/05/2021**

ame : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

eceipt : 06-05-21

r ID : Drain Side Wall Concrete,(10th cross to Church Road)

ype /Size : 150X150X150 mm

rade/Age : M20 / 28 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 'Methods of Tests for Strength of Concrete Cl.5

st : 31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	150.93 X 149.18 X 149.50	22516	**9.026**	526.1	23.4	22.9
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	150.48 X 151.08 X 149.59	22735	**8.186**	507.4	22.3	
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	150.04 X 150.62 X 149.24	22599	**8.982**	522.1	23.1	

lts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 10/05/2021**

Name : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/130/2019-20

Receipt : 06-05-21

er ID : Drain Side Wall Concrete.(10th cross to Church Road)

Type /Size : 150X150X150 mm

grade/ Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 10/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	149.47 X 151.04 X 149.73	22577	9.024	406.4	18.0	18.4
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	150.53 X 150.94 X 151.71	22721	9.008	423.0	18.6	
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	150.43 X 150.82 X 150.33	22687	8.698	420.5	18.5	

lts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 31/05/2021**

ame : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

eeipt : 06-05-21

ID : Drain Side Wall Concrete,(10th cross to Church Road)

pe /Size : 150X150X150 mm

ade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

t : 31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ain Side Wall Concrete	M20	03/05/2021	31/05/2021	150.41 X 151.47 X 150.01	22783	**9.026**	531.8	23.3	23.1
ain Side Wall Concrete	M20	03/05/2021	31/05/2021	149.54 X 150.74 X 150.07	22542	**8.186**	508.8	22.6	
ain Side Wall Concrete	M20	03/05/2021	31/05/2021	149.97 X 150.73 X 151.74	22606	**8.982**	530.5	23.5	

obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Authorized Signatory
Quality Manager

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****End of Report****

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2020-12-09-25** **Date: 10-05-21**

Project Name : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer Reference : BBMP EE BTP WO 130/2019-20

Date of Receipt : 08-05-21

Type of Mix : GSB (Granular Sub Base)

Date of test : 08-05-21

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER

CIVIL Pro Sig. Date BANGALORE

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 31/05/2021**

ame : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

eceipt : 26-05-21

r ID : Cement Concrete Pavement . (7th Cross Road)

ype /Size : 150X150X150 mm

rade/Age : M30 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ement Concrete Pavement	M30	24/05/2021	31/05/2021	151.54 X 150.10 X 151.57	22746	**8.408**	580.0	25.5	25.2
ement Concrete Pavement	M30	24/05/2021	31/05/2021	150.34 X 150.60 X 149.26	22642	**8.147**	592.1	26.1	
ement Concrete Pavement	M30	24/05/2021	31/05/2021	149.13 X 149.39 X 151.96	22278	**9.094**	535.9	24.1	

lts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vijayaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig. ..... Date..... BANGALORE

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 21/06/2021**

Name : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/130/2019-20

Receipt : 26-05-21

er ID : Cement Concrete Pavement , (7th Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 21/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	149.92 X 151.62 X 151.81	22730	**8.161**	769.6	33.9	33.0
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	151.52 X 150.07 X 149.02	22739	**8.715**	731.1	32.2	
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.66 X 149.96 X 150.64	22593	**9.076**	748.5	33.1	

ults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
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Quality Manager

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Format No: CP/TE/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 31/05/2021**

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP/EE/BTP/WO/130/2019-20

: 26-05-21

: Cement Concrete Pavement . (Ashraya Layout 3rd A Cross Connecting Hosabalu nagar Main road)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5

: 31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	149.92 X 151.77 X 150.14	22752	**8.408**	574.4	25.2	25.3
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	149.98 X 150.78 X 149.63	22615	**8.147**	595.1	26.3	
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	149.31 X 151.23 X 151.30	22579	**9.094**	548.2	24.3	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division
Bruhat Bangalore Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

CP-2020-12-09-25 **Date: 21/06/2021**

Name : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/130/2019-20

f Receipt : 26-05-21

ner ID : Cement Concrete Pavement , (Ashraya Layout 3rd A Cross Connecting Hosabalu nagar Main road)

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 'Methods of Tests for Strength of Concrete Cl.5

f test : 21/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	149.49 X 150.03 X 151.15	22429	**8.161**	741.6	33.1	33.0
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.12 X 150.43 X 151.45	22584	**8.715**	729.3	32.3	
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	149.18 X 150.04 X 150.35	22384	**9.076**	751.5	33.6	

esults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Prahathi Bangalore

FOR CIVIL Pro.

CIVIL Pro Sig. Date. BANGALORE

R.KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 31/05/2021**

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP EE/BTP/WO/130/2019-20

: 26-05-21

: Cement Concrete Pavement (Kanaka Bhavana Front Road)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	149.81 X 149.41 X 149.32	22385	**8.408**	564.8	25.2	25.4
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	150.49 X 150.04 X 150.30	22580	**8.147**	588.9	26.1	
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	149.67 X 149.52 X 149.44	22379	**9.094**	558.3	24.9	

Results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No. TC-5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	: CP-2020-12-09-25	Date: 21/06/2021
ct Name	: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."	
cy	: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010	
ner's Reference	: BBMP/EE/BTP/WO/130/2019-20	
of Receipt	: 26-05-21	
ner ID	: Cement Concrete Pavement (Kanaka Bhavana Front Road)	
le Type /Size	: 150X150X150 mm	
le grade/Age	: M30 / 28 Days Compressive Strength	
rence to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
of test	: 21/06/2021	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.63 X 150.73 X 151.87	22704	8.161	750.0	33.0	33.0
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	151.16 X 150.72 X 150.62	22782	8.715	733.9	32.2	
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.02 X 150.24 X 149.38	22539	9.076	762.8	33.8	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division

CIVIL Pro Sig. ..... Date ..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/06/2021

: CP-2020-12-09-25

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP/EE/BTP/WO/130/2019-20

: 27-05-21

: Cement Concrete Pavement (Kuvempu Nagar- 9th Cross Church Road)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 01/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	149.20 X 149.85 X 149.22	22358	8.408	565.4	25.3	25.6
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	149.14 X 150.57 X 149.26	22456	8.147	596.8	26.6	
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	151.93 X 149.85 X 151.57	22767	9.094	568.3	25.0	

Results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2020-12-09-25	Date: 22/06/2021
Name	: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."	
	: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010	
mer's Reference	: BBMP/EE/BTP/WO/130/2019-20	
f Receipt	: 27-05-21	
mer ID	: Cement Concrete Pavement (Kuvempu Nagar- 9th Cross Church Road)	
Type /Size	: 150X150X150 mm	
e grade/Age	: M30 / 28 Days Compressive Strength	
nce to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
f test	: 22/06/2021	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	151.86 X 150.48 X 150.30	22852	**8.161**	774.3	33.9	33.3
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	151.98 X 150.21 X 150.70	22829	**8.715**	748.7	32.8	
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	151.37 X 151.14 X 151.19	22878	**9.076**	762.3	33.3	

sults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 01/06/2021**

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP EE/BTP/WO 130/2019-20

: 27-05-21

: Cement Concrete Pavement (Nammura Anganavadi Near Church)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 01/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	151.46 X 151.34 X 149.71	22922	**8.408**	582.6	25.4	25.5
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	150.57 X 151.35 X 150.99	22788	**8.147**	610.5	26.8	
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	149.92 X 149.96 X 151.15	22482	**9.094**	542.9	24.1	

Results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

****End of Report****

CIVIL Pro Sig. Date BANGALORE

FOR CIVIL Pro.

R. ARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/06/2021

: CP-2020-12-09-25

ID :

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

ject Name :

ncy : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

tomer's Reference : BBMP/EE/BTP/WO/130/2019-20

e of Receipt : 27-05-21

tomer ID : Cement Concrete Pavement (Nammura Anganavadi Near Church)

ple Type /Size : 150X150X150 mm

ple grade/Age : M30 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 22/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	151.27 X 149.67 X 150.84	22641	8.161	763.5	33.7	33.4
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	149.37 X 150.32 X 150.64	22453	8.715	733.2	32.7	
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	149.86 X 151.01 X 149.62	22630	9.076	765.4	33.8	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 01/06/2021**

t Name : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

mer's Reference : BBMP/EE/BTP/WO/130/2019-20

f Receipt : 27-05-21

mer ID : Cement Concrete Pavement (6th Cross Road (Mariyamma Temple))

e Type /Size : 150X150X150 mm

e grade /Age : M30 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 01/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	150.00 X 150.93 X 150.91	22639	**8.408**	582.3	25.7	25.6
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	150.18 X 149.98 X 149.79	22524	**8.147**	599.9	26.6	
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	149.19 X 151.11 X 151.21	22544	**9.094**	549.1	24.4	

esults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig. ..... Date..... BANGALORE

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 Date: 22/06/2021

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No 11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP EE/BTP/WO/130/2019-20

eceipt : 27-05-21

r ID : Cement Concrete Pavement (6th Cross Road (Mariyamma Temple))

Type /Size : 150X150X150 mm

rade/Age : M30 / 28 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 22/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	149.79 X 149.78 X 150.21	22437	8.161	744.3	33.2	32.8
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	151.11 X 149.12 X 151.11	22533	8.715	725.6	32.2	
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	150.12 X 151.90 X 151.17	22804	9.076	753.8	33.1	

sults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro BANGALORE Sig. ..... Date.....

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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 02/06/2021**

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP/EE/BTP/WO/130/2019-20

: 28-05-21

: Cement Concrete Pavement (Maramma Temple Road)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 02/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	150.47 X 149.34 X 149.28	22470	**8.408**	577.1	25.7	25.7
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	151.45 X 151.15 X 149.43	22892	**8.147**	617.0	27.0	
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	149.13 X 150.53 X 149.82	22447	**9.094**	550.2	24.5	

sults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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FOR CIVIL Pro.
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-09-25
Name	:	"Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
	:	BBMP/EE/BTP/WO/130/2019-20
's Reference	:	28-05-21
Receipt	:	Cement Concrete Pavement (Maramma Temple Road)
ID	:	150X150X150 mm
Type /Size	:	M30 / 28 Days Compressive Strength
grade/ Age	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ence to BIS codes	:	
f test	:	23/06/2021

Date: 23/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	151.82 X 149.97 X 149.38	22769	8.161	774.0	34.0	33.3
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	149.21 X 150.10 X 151.94	22396	8.715	731.4	32.7	
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	151.17 X 150.43 X 151.52	22740	9.076	756.7	33.3	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 02/06/2021**

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP/EE/BTP/WO/130/2019-20

: 28-05-21

: Cement Concrete Pavement (Muniswamappa Layout -1st Cross Road)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 02/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	151.29 X 149.98 X 150.81	22691	**8.408**	568.4	25.1	25.2
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	150.50 X 151.38 X 151.75	22782	**8.147**	598.0	26.2	
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	150.57 X 149.96 X 150.33	22580	**9.094**	548.7	24.3	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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R KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 23/06/2021**

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP/EE/BTP/WO/130/2019-20

: 28-05-21

: Cement Concrete Pavement (Muniswamappa Layout -1st Cross Road)

: 150X150X150 mm

: M30 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 23/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	151.49 X 150.61 X 151.52	22815	8.161	759.3	33.3	33.3
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	151.33 X 149.19 X 150.67	22577	8.715	735.5	32.6	
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	151.85 X 149.28 X 150.78	22667	9.076	769.4	33.9	

sults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

CP-2020-12-09-25 **Date: 02/06/2021**

Name : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/130/2019-20

Receipt : 28-05-21

r ID : Cement Concrete Pavement (Singapur Layout-Cross Road)

Type /Size : 150X150X150 mm

rade/Age : M30 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 02/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ement Concrete Pavement	M30	26/05/2021	02/06/2021	151.53 X 149.21 X 151.71	22610	**8.408**	587.1	26.0	25.8
ment Concrete Pavement	M30	26/05/2021	02/06/2021	151.00 X 151.93 X 151.82	22941	**8.147**	614.1	26.8	
ment Concrete Pavement	M30	26/05/2021	02/06/2021	150.83 X 151.10 X 151.73	22791	**9.094**	561.5	24.6	

obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig. Date. BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 23/06/2021**

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

ame : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP/EE/BTP/WO/130/2019-20

's Reference : 28-05-21

Receipt : Cement Concrete Pavement (Singapur Layout-Cross Road)

e ID : 150X150X150 mm

Type Size : M30 / 28 Days Compressive Strength

grade Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ce to BIS codes : 23/06/2021

Test

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	150.04 X 149.41 X 150.55	22418	**8.161**	757.1	33.8	33.1
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	150.96 X 150.37 X 149.00	22700	**8.715**	731.7	32.2	
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	149.15 X 149.95 X 149.08	22365	**9.076**	746.5	33.4	

sults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig. ..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/06/2021

: CP-2020-12-09-25

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP/EE/BTP/WO/130/2019-20

: 29-05-21

: Cement Concrete Pavement (KiranDeep Nivas House Road)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ement Concrete Pavement	M30	27/05/2021	03/06/2021	150.54 X 149.14 X 149.06	22452	8.408	577.3	25.7	25.5
ement Concrete Pavement	M30	27/05/2021	03/06/2021	149.52 X 149.21 X 151.55	22310	8.147	590.3	26.5	
ement Concrete Pavement	M30	27/05/2021	03/06/2021	151.44 X 150.68 X 150.19	22818	9.094	552.7	24.2	

s obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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TEST REPORT OF CEMENT CONCRETE CUBES

CP-2020-12-09-25 **Date: 24/06/2021**

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No:11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

eference : BBMP/EE/BTP/WO/130/2019-20

t : 29-05-21

: Cement Concrete Pavement (KiranDeep Nivas House Road)

Size : 150X150X150 mm

Age : M30 / 28 Days Compressive Strength

IS codes : IS: 516 - 1959 'Methods of Tests for Strength of Concrete Cl.5

: 24/06/2021

fication ark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Concrete ment	M30	27/05/2021	24/06/2021	150.86 X 151.77 X 151.68	22896	**8.161**	762.6	33.3	33.2
Concrete ment	M30	27/05/2021	24/06/2021	151.95 X 150.76 X 151.10	22907	**8.715**	749.6	32.7	
Concrete ment	M30	27/05/2021	24/06/2021	150.41 X 149.03 X 149.60	22415	**9.076**	750.2	33.5	

ned are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 03/06/2021**

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP/EE/BTP/WO/130/2019-20

: 29-05-21

: Cement Concrete Pavement (#13 Surabhi House Road)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/06/2021

tification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
nt Concrete avement	M30	27/05/2021	03/06/2021	149.25 X 149.63 X 149.27	22331	**8.408**	569.4	25.5	25.5
nt Concrete vement	M30	27/05/2021	03/06/2021	150.39 X 151.89 X 149.06	22843	**8.147**	614.9	26.9	
t Concrete vement	M30	27/05/2021	03/06/2021	151.08 X 149.21 X 150.21	22542	**9.094**	541.0	24.0	

ained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No : TC-6548

Format No : CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

CP-2020-12-09-25

Date: 24/06/2021

Name : "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th C Main Road, 3rd 'S' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

Receipt : 29-05-21

r ID : Cement Concrete Pavement @13 Surabhi House Road)

ype /Size : 150X150X150 mm

rade/Age : M30 / 28 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 24/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
ement Concrete Pavement	M30	27/05/2021	24/06/2021	149.54 X 151.30 X 150.02	22625	8.161	747.7	33.0	33.1
ement Concrete Pavement	M30	27/05/2021	24/06/2021	151.62 X 149.23 X 149.74	22626	8.715	734.3	32.5	
ement Concrete Pavement	M30	27/05/2021	24/06/2021	150.74 X 150.90 X 151.26	22746	9.076	771.2	33.9	

s obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

CP/2020-12-09-25 **Date: 03/06/2021**

Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

Address : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/130/2019-20

Receipt : 29-05-21

r ID : Cement Concrete Pavement (#120 Ashirvada House Road)

Type/ Size : 150X150X150 mm

rade/ Age : M30 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 03/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	151.50 X 150.56 X 150.32	22780	8.408	577.7	25.4	25.6
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	151.07 X 149.72 X 150.10	22753	8.147	606.7	26.7	
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	149.81 X 149.74 X 149.65	22433	9.094	558.2	24.9	

sults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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S KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No : TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2020-12-09-25	Date: 24/06/2021
Name	: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."	
	: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th C Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010	
	: BBMP/EE/BTP/WO/130/2019-20	
ner's Reference	: 29-05-21	
f Receipt	: Cement Concrete Pavement (#120 Ashirvada House Road)	
ner ID	: 150X150X150 mm	
n Type /Size	: M30 / 28 Days Compressive Strength	
n grade/Age	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
nce to BIS codes	: 24/06/2021	
f test		

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	149.48 X 150.16 X 151.79	22446	**8.161**	756.0	33.7	33.4
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	150.65 X 151.80 X 151.90	22869	**8.715**	748.8	32.7	
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	149.14 X 149.95 X 150.82	22364	**9.076**	754.2	33.7	

Results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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R KARTHIK RECHAN
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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TE/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25 **Date: 03/06/2021**

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP/EE/BTP/WO/130/2019-20

: 29-05-21

: Cement Concrete Pavement (#120 Ashirvada House Road)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	151.01 X 151.46 X 150.96	22872	**8.408**	577.4	25.2	25.4
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	151.58 X 151.31 X 150.81	22936	**8.147**	602.5	26.3	
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	149.34 X 151.09 X 151.46	22565	**9.094**	553.6	24.5	

Results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig. ..... Date ..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No. TC-5548

Format No. CPTL 01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-09-25

Date: 24/06/2021

: "Improvements to Roads and Drains at Kuvempunagara 1st Stage and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP/EE/BTP/WO/130/2019-20

: 29-05-21

: Cement Concrete Pavement (#120 Ashirvada House Road)

: 150X150X150 mm

: M30 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ement Concrete Pavement	M30	27/05/2021	24/06/2021	150.95 X 150.64 X 149.27	22739	**8.161**	772.9	34.0	33.2
ement Concrete Pavement	M30	27/05/2021	24/06/2021	151.43 X 149.74 X 149.33	22675	**8.715**	729.2	32.2	
ement Concrete Pavement	M30	27/05/2021	24/06/2021	151.31 X 150.00 X 149.84	22696	**9.076**	756.1	33.3	

lts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Lab ID : CP-2020-12-09-26 Date: 08-05-21

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	202	80678	356.7	4.4	4.6
2	402	202	81277	358.7	4.4	
3	402	201	80814	362.3	4.5	
4	400	199	79617	358.9	4.5	
5	401	203	81313	372.8	4.6	
6	404	201	81249	364.8	4.5	
7	400	199	79721	390.8	4.9	
8	403	200	80674	382.3	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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FOR CIVIL Pro.

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Quality Manager

****End of Report****

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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Kerb	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1

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CIVIL Pro
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Date.....
BANGALORE

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8	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	5 set /51-100 cum	53.85	10	10
10	Drain Bottom Raft Concrete M20	Compressive Strength(7days and 28days)	2 set /6-15 cum	12.8	4	4
11	Drain SideWall Concrete M20	Compressive Strength(7days and 28days)	3 set /16-30 cum	17.86	6	6

CIVIL PRO Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-16-03-2020-03** **Date: 14-11-19**
Project Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	–
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-16-03-2020-03 **Date: 10-12-19**
Project Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-16-03-2020-03** **Date: 14-11-19**
Project Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-16-03-2020-03** **Date: 14-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.21	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-16-03-2020-03 **Date: 13-11-19**
Project Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	11-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-16-03-2020-03 Date: 13-11-19

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-16-03-2020-03** **Date: 13-11-19**

Project Name : Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/141/2019-20

Date of Receipt : 11-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :**The tested Sample Conforms to Grading Zone II**

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-16-03-2020-03 Date: 13-11-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-16-03-2020-03 **Date: 28-11-19**
Project Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Date of Receipt	:	25-11-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of Test	:	25-11-19

BLOCK DENSITY:

Sl.No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	199	203	16240	33.350	2053.6	2037.7	Not less than 1800Kg/m^3
2	402	198	200	15919	31.085	1952.7		
3	398	200	199	15840	33.371	2106.7		

WATER ABSORPTION:

Sl.No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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: CP-16-03-2020-03 Date: 28-11-19

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	404	202	200	
3	399	200	199	
4	404	199	202	
5	404	201	203	
6	402	200	199	
7	403	199	199	
8	404	200	202	
9	403	201	201	
10	400	202	200	
11	399	203	201	
12	401	201	200	
13	404	200	203	
14	402	202	203	
15	399	200	202	
16	401	203	199	
17	404	202	202	
18	400	203	199	
19	403	201	200	
20	401	202	203	
Average	**402**	**201**	**201**	

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Lab ID : CP-16-03-2020-03 Date: 28-11-19

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	200	80421	342.2	4.3	4.2
2	404	202	81498	349.7	4.3	
3	399	200	79950	332.8	4.2	
4	404	199	80362	332.3	4.1	
5	404	201	81111	338.1	4.2	
6	402	200	80642	347.0	4.3	
7	403	199	80447	339.3	4.2	
8	404	200	80908	342.5	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST RESULTS OF STEEL

: **CP-16-03-2020-03** **Date: 16-11-19**

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/141/2019-20

: 15-11-19

Type : Sunvik

BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

: 15-11-19

Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
		(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

ID	:	CP-16-03-2020-03 **Date: 03-12-19**
ject Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
ency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
ner's Reference	:	BBMP/EE/BTP/WO/141/2019-20
of Receipt	:	29-11-19
ple Type /Size	:	Precast Cover Slab (100mm)
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
of Test	:	29/11/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

	:	**CP-16-03-2020-03** **Date: 09-12-19**
Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Receipt	:	04-12-19
Type /Size	:	CC Kerb Stone/ 450*165*400mm
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
	:	04/12/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-16-03-2020-03** **Date: 28/11/2019**

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/141/2019-20

: 23-11-19

: PCC

Type /Size : 150X150X150 mm

grade/Age : M15 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	28/11/2019	150.08 X 149.29 X 149.89	22406	**8.640**	276.0	12.3	12.5
PCC	M15	21/11/2019	28/11/2019	149.82 X 150.87 X 149.75	22603	**8.978**	290.6	12.9	
PCC	M15	21/11/2019	28/11/2019	150.44 X 150.41 X 151.77	22628	**8.541**	276.4	12.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-16-03-2020-03

Date: 19/12/2019

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/141/2019-20

: 23-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 19/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
PCC	M15	21/11/2019	19/12/2019	150.23 X 149.54 X 151.20	22466	**8.319**	393.9	17.5	17.8
PCC	M15	21/11/2019	19/12/2019	151.80 X 149.96 X 149.26	22764	**8.591**	409.2	18.0	
PCC	M15	21/11/2019	19/12/2019	151.68 X 149.05 X 150.37	22609	**8.784**	406.2	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

[illegible]	:	**CP-16-03-2020-03** **Date: 28/11/2019**
[illegible] Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
[illegible]	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
[illegible]'s Reference	:	BBMP/EE/BTP/WO/141/2019-20
[illegible] Receipt	:	23-11-19
[illegible] ID	:	PCC
[illegible] Type /Size	:	150X150X150 mm
[illegible] grade/Age	:	M15 / 7 Days Compressive Strength
[illegible] to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
[illegible] test	:	28/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	28/11/2019	151.46 X 149.63 X 150.29	22663	**8.640**	294.0	13.0	12.5
PCC	M15	21/11/2019	28/11/2019	151.80 X 151.07 X 149.40	22933	**8.978**	286.6	12.5	
PCC	M15	21/11/2019	28/11/2019	151.91 X 150.90 X 149.34	22923	**8.541**	275.1	12.0	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-16-03-2020-03** **Date: 19/12/2019**

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/141/2019-20

: 23-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 19/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	19/12/2019	151.37 X 149.53 X 149.66	22635	**8.319**	403.0	17.8	17.6
PCC	M15	21/11/2019	19/12/2019	150.56 X 150.08 X 151.10	22596	**8.591**	390.9	17.3	
PCC	M15	21/11/2019	19/12/2019	149.32 X 149.17 X 149.06	22273	**8.784**	390.8	17.5	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-16-03-2020-03 **Date: 28/11/2019**

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/141/2019-20

Receipt : 23-11-19

ID : PCC

/Size : 150X150X150 mm

grade/Age : M15 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	28/11/2019	149.43 X 151.52 X 149.51	22642	**8.640**	280.6	12.4	12.5
PCC	M15	21/11/2019	28/11/2019	150.93 X 149.75 X 149.28	22601	**8.978**	286.8	12.7	
PCC	M15	21/11/2019	28/11/2019	151.63 X 150.98 X 151.73	22893	**8.541**	287.6	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-16-03-2020-03** **Date: 19/12/2019**

Name : Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

's Reference : BBMP/EE/BTP/WO/141/2019-20

Receipt : 23-11-19

ID : PCC

Type /Size : 150X150X150 mm

grade/Age : M15 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 19/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	19/12/2019	151.56 X 149.76 X 149.46	22698	**8.319**	392.3	17.3	17.5
PCC	M15	21/11/2019	19/12/2019	150.87 X 151.87 X 150.63	22913	**8.591**	409.0	17.8	
PCC	M15	21/11/2019	19/12/2019	150.82 X 149.10 X 150.60	22488	**8.784**	390.1	17.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-16-03-2020-03 **Date: 28/11/2019**

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

's Reference : BBMP/EE/BTP/WO/141/2019-20

Receipt : 23-11-19

ID : PCC

Type /Size : 150X150X150 mm

grade/Age : M15 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	28/11/2019	149.29 X 149.09 X 149.25	22257	**8.640**	270.1	12.1	12.4
PCC	M15	21/11/2019	28/11/2019	150.64 X 149.14 X 150.41	22467	**8.978**	277.4	12.3	
PCC	M15	21/11/2019	28/11/2019	149.60 X 151.72 X 151.73	22699	**8.541**	286.2	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-16-03-2020-03** **Date: 19/12/2019**
Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
er's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Receipt	:	23-11-19
er ID	:	PCC
Type /Size	:	150X150X150 mm
grade/Age	:	M15 / 28 Days Compressive Strength
ce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	19/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	19/12/2019	151.34 X 151.61 X 151.48	22944	**8.319**	409.3	17.8	17.8
PCC	M15	21/11/2019	19/12/2019	151.24 X 151.74 X 149.10	22949	**8.591**	409.6	17.8	
PCC	M15	21/11/2019	19/12/2019	151.37 X 150.28 X 151.43	22747	**8.784**	402.5	17.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-16-03-2020-03** **Date: 28/11/2019**

: Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

: Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/141/2019-20

ipt : 23-11-19

ID : PCC

/Size : 150X150X150 mm

/Age : M15 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	28/11/2019	149.30 X 150.30 X 150.17	22439	**8.640**	289.1	12.9	12.6
PCC	M15	21/11/2019	28/11/2019	149.67 X 151.83 X 150.04	22725	**8.978**	279.9	12.3	
PCC	M15	21/11/2019	28/11/2019	150.09 X 149.91 X 149.42	22500	**8.541**	282.2	12.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-16-03-2020-03** **Date: 19/12/2019**
Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
's Reference	:	BBMP/EE/BTP/WO/141/2019-20
Receipt	:	23-11-19
ID	:	PCC
Type /Size	:	150X150X150 mm
grade/Age	:	M15 / 28 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Test	:	19/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	21/11/2019	19/12/2019	150.85 X 150.91 X 151.84	22766	**8.319**	387.6	17.0	17.5
PCC	M15	21/11/2019	19/12/2019	151.59 X 149.61 X 151.35	22679	**8.591**	407.3	18.0	
PCC	M15	21/11/2019	19/12/2019	150.88 X 150.58 X 150.34	22720	**8.784**	398.1	17.5	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

D	:	CP-16-03-2020-03 **Date: 03/12/2019**
t Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
y	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
f Receipt	:	28-11-19
mer ID	:	Drain Bottom Raft Concrete
e Type /Size	:	150X150X150 mm
e grade/Age	:	M20 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	151.94 X 149.58 X 151.02	22727	**8.704**	409.7	18.0	18.3
Drain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	150.62 X 149.46 X 149.85	22512	**8.019**	406.1	18.0	
Drain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	150.63 X 150.66 X 149.17	22694	**8.469**	428.7	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

...ID	:	**CP-16-03-2020-03** **Date: 24/12/2019**
...ct Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
...ency	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
...mer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
...of Receipt	:	28-11-19
...mer ID	:	Drain Bottom Raft Concrete
...e Type /Size	:	150X150X150 mm
...e grade/Age	:	M20 / 28 Days Compressive Strength
...nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
...of test	:	24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	150.89 X 151.07 X 149.89	22795	**8.229**	527.5	23.1	23.1
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	150.91 X 150.42 X 151.93	22701	**8.393**	508.8	22.4	
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	149.69 X 149.30 X 151.33	22349	**8.020**	527.5	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-16-03-2020-03** **Date: 03/12/2019**
t Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
ner	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
ner's Reference	:	BBMP/EE/BTP/WO/141/2019-20
f Receipt	:	28-11-19
ner ID	:	Drain Bottom Raft Concrete
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	151.70 X 151.88 X 151.52	23041	**8.704**	430.2	18.7	18.5
Drain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	150.35 X 151.67 X 151.43	22804	**8.019**	428.4	18.8	
Drain Bottom Raft Concrete	M20	26/11/2019	03/12/2019	150.10 X 149.25 X 151.44	22401	**8.469**	404.5	18.1	

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Quality Manager

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Date.....

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D	:	**CP-16-03-2020-03** **Date: 24/12/2019**
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cy	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
of Receipt	:	28-11-19
mer ID	:	Drain Bottom Raft Concrete
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	149.84 X 150.60 X 151.36	22565	**8.229**	537.0	23.8	23.5
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	151.47 X 151.09 X 151.72	22884	**8.393**	524.7	22.9	
Drain Bottom Raft Concrete	M20	26/11/2019	24/12/2019	149.18 X 151.76 X 149.61	22640	**8.020**	539.8	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-16-03-2020-03 **Date: 07/12/2019**
ect Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
ncy	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
omer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
of Receipt	:	02-12-19
omer ID	:	Drain SideWall Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	07/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.57 X 151.54 X 150.77	22817	**8.704**	412.7	18.1	18.2
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.55 X 151.92 X 151.64	22871	**8.019**	418.7	18.3	
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	151.65 X 151.66 X 150.05	22999	**8.469**	416.6	18.1	

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ID	:	CP-16-03-2020-03 **Date: 28/12/2019**
ct Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
cy	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
of Receipt	:	02-12-19
omer ID	:	Drain SideWall Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	28/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	150.70 X 149.92 X 150.27	22593	**8.229**	541.4	24.0	23.3
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	149.78 X 151.57 X 151.62	22702	**8.393**	509.7	22.5	
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	150.33 X 150.27 X 149.93	22590	**8.020**	528.0	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : **CP-16-03-2020-03**

Date: 07/12/2019

ject Name : Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

ncy : Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

mer's Reference : BBMP/EE/BTP/WO/141/2019-20

e of Receipt : 02-12-19

mmer ID : Drain SideWall Concrete

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 07/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	151.88 X 149.65 X 151.66	22728	8.704	430.5	18.9	18.8
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.10 X 151.72 X 151.26	22773	8.019	425.2	18.7	
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.20 X 150.86 X 151.92	22659	8.469	428.9	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-16-03-2020-03** **Date: 28/12/2019**
ect Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
ncy	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
of Receipt	:	02-12-19
mer ID	:	Drain SideWall Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	28/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	149.96 X 151.51 X 151.37	22720	**8.229**	528.3	23.3	23.1
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	149.94 X 149.26 X 151.87	22380	**8.393**	503.8	22.5	
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	150.16 X 151.11 X 151.65	22690	**8.020**	534.1	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-16-03-2020-03 **Date: 07/12/2019**
ect Name	:	Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara
ncy	:	Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
omer's Reference	:	BBMP/EE/BTP/WO/141/2019-20
of Receipt	:	02-12-19
omer ID	:	Drain SideWall Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	07/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.73 X 151.96 X 149.14	22905	**8.704**	414.6	18.1	18.3
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	150.03 X 150.69 X 151.74	22608	**8.019**	417.4	18.5	
Drain SideWall Concrete	M20	30/11/2019	07/12/2019	149.69 X 151.92 X 151.50	22741	**8.469**	418.7	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-16-03-2020-03 **Date: 28/12/2019**

ject Name : Improvements to Roads and Drains at Singapura and Surrounding Areas in ward No.11 in Kuvempunagara

ncy : Executive Engineer, Karnataka Rural Infrastructural Development Ltd,#280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

tomer's Reference : BBMP/EE/BTP/WO/141/2019-20

e of Receipt : 02-12-19

tomer ID : Drain SideWall Concrete

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 28 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

te of test : 28/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	151.50 X 151.62 X 150.58	22971	**8.229**	547.1	23.8	23.1
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	150.03 X 149.07 X 151.91	22365	**8.393**	503.7	22.5	
Drain SideWall Concrete	M20	30/11/2019	28/12/2019	151.26 X 150.77 X 150.33	22806	**8.020**	526.5	23.1	

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QC ABSTRACT

WORK: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward empunagara.

Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials					
Cement	Fineness by dry sieving	One Test		1	1
	Finess by Air permeablity method	One Test		1	1
	Density	One Test		1	1
	Standard Consistency	One Test		1	1
	Initial Setting time	One Test		1	1
	Final Setting time	One Test		1	1
	Soundness (Le Chatelier's Method)	One Test		1	1
	Compressive Strength	One Test		1	1
Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
	Flakiness Index	One Test		1	1
	Elongation Index	One Test		1	1
	Specific Gravity	One Test		1	1
	Bulk Density(Loose)	One Test		1	1
	Bulk Density(Compacted)	One Test		1	1
	Water Absorption	One Test		1	1
Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
	Flakiness Index	One Test		1	1
	Elongation Index	One Test		1	1
	Specific Gravity	One Test		1	1
	Bulk Density(Loose)	One Test		1	1
	Bulk Density(Compacted)	One Test		1	1
	Water Absorption	One Test		1	1
	Aggregate crushing Value	One Test		1	1
	Aggregate Impact Value	One Test		1	1
Fine aggregate	SIEVE ANALYSIS	One Test		1	1
	Water Absorption	One Test		1	1
	Specific Gravity	One Test		1	1
	Material finer than 75 micron	One Test		1	1
Steel	Bend test	One Test		1	1
	Tensile Test	One Test		1	1
	Yield Test	One Test		1	1
	ReBend test	One Test		1	1
Precast (100mm)	Core Compressive Strength	One Test		1	1
	Corrected Cylinder Compressive Strength	One Test		1	1
	Equivalent Cube Compressive Strength	One Test		1	1
RCC(M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	134.03	12	12
Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	14 set /500-600 cum	473.59	24	24

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-04-23-23** **Date: 15-09-21**
Project Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Date of Receipt	:	11-09-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-09-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.32	–
2	Finess by Air permeablity method (m^2/kg,Min)	271.7	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0 mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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DR.KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-04-23-23 **Date: 12-10-21**
Project Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Date of Receipt	:	11-09-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-09-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-23-23** **Date: 16-09-21**
Project Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Date of Receipt	:	11-09-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-09-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	754	754	5.0	95.0	90-100
3	20 mm	6592	7346	49.0	51.0	30-70
4	10 mm	4759	12105	80.7	19.3	10-35
5	4.75 mm	2595	14700	98.0	2.0	0-5
6	Pan	300	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-04-23-23 Date: 16-09-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.46	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.18	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-23-23** **Date: 15-09-21**
Project Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer Reference	:	BBMP/EE/BTP/WO/143/2019-20
Date of Receipt	:	11-09-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-09-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	223	223	4.5	95.5	90-100
3	10 mm	2174	2397	47.9	52.1	25-55
4	4.75 mm	2271	4668	93.4	6.6	0-10
5	Pan	332	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-04-23-23** **Date: 15-09-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.59	_
4	Bulk Density(Loose) (Kg/l)	1.51	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

ab ID	:	**CP-2022-04-23-23** **Date: 15-09-21**
roject Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
gency	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
stomer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
te of Receipt	:	11-09-21
mple Type	:	Fine Aggregate
ference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
te of test	:	13-09-21
al weight taken	:	1000 grams

	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
	10 mm	0	0	0.0	100.0	100	100	100	100
	4.75 mm	74	74	7.4	92.6	90-100	90-100	90-100	95-100
	2.36 mm	128	202	20.2	79.8	60-95	75-100	85-100	95-100
	1.18 mm	214	416	41.6	58.4	30-70	55-90	75-100	90-100
	600 micron	215	631	63.1	36.9	15-34	35-59	60-79	80-100
	300 micron	174	805	80.5	19.5	5-20	8-30	12-40	15-50
	150 micron	155	960	96.0	4.0	0-10	0-10	0-10	0-15
	Pan	40	1000	100.0	0.0	---	---	---	---

sult :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

ID : CP-2022-04-23-23

Date: 15-09-21

PHYSICAL PROPERTIES

Tests	Result	Requirements as per IS 383:2016
Water Absorption(%)	2.18	–
Specific Gravity	2.54	–
Material finer than 75 micron(%)	3.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

: **CP-2022-04-23-23** **Date: 14-09-21**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 11-09-21

Type : Sunvik

ce to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

est: : 13-09-21

Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
		(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
Sunvik	Fe500	10	0.612	532	665	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	12	0.885	555	672	20.0%	Satisfactory	Satisfactory

lts obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

	:	**CP-2022-04-23-23**	**Date: 17-09-21**
ame	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.	
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.	
r's Reference	:	BBMP/EE/BTP/WO/143/2019-20	
eceipt	:	11-09-21	
ype /Size	:	Precast Cover Slab	
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
st	:	13/09/2021	

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.49	100.49	1.288	4475	82.4	18.4	17.1	21.4
Cover Slab-2	75.52	100.47	1.386	4478	81.7	18.2	17.0	21.2
Cover Slab-3	75.51	0.51	1.285	4477	83.5	18.6	17.3	21.7

ttained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2022-04-23-23** **Date: 16/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 11-10-21

er ID : Drain Bottom Raft - Muniramu Colony Cross Road 1

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 16/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	149.30 X 150.02 X 151.07	22399	8.764	415.2	18.5	18.6
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	151.76 X 149.48 X 149.19	22684	8.235	429.2	18.9	
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	151.80 X 150.00 X 151.31	22770	8.143	415.7	18.3	

ults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23** **Date: 06/11/2021**
t Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
ner's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	11-10-21
ner ID	:	Drain Bottom Raft - Muniramu Colony Cross Road 1
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Test	:	06/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	149.88 X 150.68 X 149.41	22583	8.523	535.6	23.7	23.1
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	151.56 X 151.51 X 151.19	22963	8.537	534.9	23.3	
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	149.32 X 149.35 X 151.93	22302	8.262	499.3	22.4	

ults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2022-04-23-23
Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	11-10-21
ID	:	Drain Bottom Raft - Muniramu Colony Cross Road 1
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 7 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Test	:	16/10/2021

Date: 16/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	151.71 X 151.16 X 151.59	22932	8.503	418.1	18.2	18.6
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	151.73 X 151.51 X 149.61	22989	9.038	427.5	18.6	
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	150.63 X 150.97 X 151.59	22741	8.673	431.9	19.0	

s obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CIVIL PRO
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23** **Date: 06/11/2021**
Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	11-10-21
ID	:	Drain Bottom Raft - Muniramu Colony Cross Road 1
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 28 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Test	:	06/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	149.56 X 150.52 X 151.65	22512	8.819	520.6	23.1	23.1
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	150.50 X 150.73 X 151.59	22685	9.084	531.4	23.4	
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	151.26 X 150.82 X 150.90	22813	9.026	516.4	22.6	

sults obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 18/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 12-10-21

ID : Drain Bottom Raft - Kaltharu Layout Cross Road

Type /Size : 150X150X150 mm

ade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	17/10/2021	151.73 X 149.93 X 149.53	22748	8.601	409.9	18.0	18.3
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	17/10/2021	149.02 X 150.77 X 151.84	22468	8.964	422.8	18.8	
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	17/10/2021	150.66 X 149.60 X 150.41	22539	9.088	407.4	18.1	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23**
Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	12-10-21
ID	:	Drain Bottom Raft - Kaltharu Layout Cross Road
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 28 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
est	:	08/11/2021

Date: 08/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	07/11/2021	150.24 X 149.20 X 150.67	22415	8.108	528.7	23.6	22.9
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	07/11/2021	151.73 X 150.92 X 151.81	22899	8.717	515.4	22.5	
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	07/11/2021	150.93 X 149.23 X 151.18	22525	8.583	512.3	22.7	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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WAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 18/10/2021**

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 13-10-21

ID : Drain Side Wall - Muniramu Colony Cross Road 1

Type /Size : 150X150X150 mm

ade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 18/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	18/10/2021	150.61 X 151.29 X 151.13	22786	8.125	431.2	18.9	18.7
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	18/10/2021	149.51 X 151.72 X 149.31	22683	8.973	417.5	18.4	
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	18/10/2021	150.29 X 151.62 X 151.83	22786	9.026	430.5	18.9	

s obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 08/11/2021**

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 13-10-21

ID : Drain Side Wall - Muniramu Colony Cross Road 1

Type /Size : 150X150X150 mm

Grade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 08/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	08/11/2021	151.31 X 150.65 X 150.90	22796	8.354	529.7	23.2	23.2
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	08/11/2021	151.18 X 149.38 X 151.26	22583	8.826	529.4	23.4	
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	08/11/2021	151.03 X 149.27 X 150.49	22544	8.134	516.8	22.9	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 19/10/2021**

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 16-10-21

ID : Drain Side Wall -Velagani Main Road

/Size : 150X150X150 mm

/Age : M20 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 19/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Side Wall - Main Road	M20	12/10/2021	19/10/2021	151.34 X 151.30 X 150.45	22898	9.010	426.3	18.6	18.4
Side Wall - Main Road	M20	12/10/2021	19/10/2021	150.14 X 150.95 X 151.92	22663	8.213	412.6	18.2	
Side Wall - Main Road	M20	12/10/2021	19/10/2021	149.35 X 149.29 X 151.55	22298	9.041	409.5	18.4	

tained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R.KARTHIK RECHAN
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****End of Report****

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GHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23

Date: 09/11/2021

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 16-10-21

ID : Drain Side Wall -Velagani Main Road

Type /Size : 150X150X150 mm

Grade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 09/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Velagani Main Road	M20	12/10/2021	09/11/2021	151.36 X 150.38 X 149.51	22761	8.930	544.9	23.9	23.1
Drain Side Wall - Velagani Main Road	M20	12/10/2021	09/11/2021	151.42 X 151.39 X 149.20	22923	9.087	528.2	23.0	
Drain Side Wall - Velagani Main Road	M20	12/10/2021	09/11/2021	150.82 X 151.72 X 149.28	22883	8.975	508.2	22.2	

obtained are satisfactory as per standard requirements.

AEE (WRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: *CP-2022-04-23-23*

Date: 20/10/2021

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 16-10-21

ID : Drain Side Wall - Kaltharu Layout Cross Road

Type /Size : 150X150X150 mm

Grade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 20/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	20/10/2021	149.33 X 150.81 X 149.10	22521	8.448	412.6	18.3	18.5
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	20/10/2021	149.45 X 150.93 X 150.03	22556	8.620	414.6	18.4	
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	20/10/2021	150.44 X 150.16 X 149.61	22590	9.039	426.2	18.9	

ontained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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IGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23

Date: 10/11/2021

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 16-10-21

ID : Drain Side Wall - Kaltharu Layout Cross Road

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 10/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	10/11/2021	149.86 X 149.23 X 149.95	22364	8.619	528.2	23.6	23.2
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	10/11/2021	150.74 X 150.50 X 151.09	22686	8.144	531.3	23.4	
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	10/11/2021	151.66 X 149.76 X 150.67	22713	8.479	514.9	22.7	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23

Date: 25/10/2021

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 20-10-21

ID : Cement Concrete Pavement - Rajarajeshwari Main Road

Type /Size : 150X150X150 mm

Grade/Age : M30 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 25/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	149.91 X 149.58 X 151.95	22425	8.265	606.9	27.1	27.0
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	151.27 X 149.60 X 151.12	22630	8.235	621.2	27.4	
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	151.78 X 150.86 X 149.08	22897	8.710	609.4	26.6	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23

Date: 15/11/2021

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

ipt : 20-10-21

ID : Cement Concrete Pavement - Rajarajeshwari Main Road

Type /Size : 150X150X150 mm

ade/Age : M30 / 28 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 15/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ent Concrete Pavement - ajeshwari Main Road	M30	18/10/2021	15/11/2021	150.11 X 151.53 X 149.22	22745	8.369	764.7	33.6	33.0
ent Concrete Pavement - ajeshwari Main Road	M30	18/10/2021	15/11/2021	150.56 X 150.32 X 150.62	22631	8.168	751.3	33.2	
ent Concrete Pavement - ajeshwari Main Road	M30	18/10/2021	15/11/2021	151.51 X 151.83 X 150.86	23003	8.773	740.9	32.2	

btained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 25/10/2021**

me : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

r's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 20-10-21

er ID : Cement Concrete Pavement - Rajarajeshwari Main Road

Type /Size : 150X150X150 mm

rade/Age : M30 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 25/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	151.07 X 149.01 X 151.42	22512	9.015	609.8	27.1	27.2
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	150.54 X 149.11 X 149.81	22447	8.725	621.3	27.7	
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	149.40 X 149.34 X 149.76	22311	8.619	598.7	26.8	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2022-04-23-23** **Date: 15/11/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 20-10-21

er ID : Cement Concrete Pavement - Rajarajeshwari Main Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 15/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	150.98 X 151.95 X 151.69	22940	8.713	779.6	34.0	33.3
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	151.25 X 150.42 X 149.11	22752	8.488	748.3	32.9	
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	151.98 X 150.92 X 151.25	22937	8.913	754.2	32.9	

**ults obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 25/10/2021**

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 20-10-21

ID : Cement Concrete Pavement - Rajarajeshwari Main Road

Type /Size : 150X150X150 mm

Grade/Age : M30 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 25/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	25/10/2021	151.72 X 151.58 X 150.65	22998	8.226	633.2	27.5	27.2
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	25/10/2021	151.70 X 151.73 X 150.34	23018	8.938	628.4	27.3	
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	25/10/2021	150.32 X 151.28 X 149.93	22741	8.878	611.4	26.9	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23** **Date: 15/11/2021**
Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	20-10-21
ID	:	Cement Concrete Pavement - Rajarajeshwari Main Road
Type /Size	:	150X150X150 mm
grade/Age	:	M30 / 28 Days Compressive Strength
ce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Test	:	15/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	149.11 X 149.73 X 150.24	22327	8.243	743.7	33.3	32.9
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	151.86 X 151.69 X 149.21	23036	8.143	760.5	33.0	
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	151.48 X 151.39 X 151.38	22934	8.302	744.2	32.4	

ults obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : **CP-2022-04-23-23** **Date: 26/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 21-10-21

er ID : Cement Concrete Pavement - Asraya Layout 6th Cross Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 26/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	149.22 X 151.18 X 150.31	22559	9.045	623.6	27.6	27.3
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	151.05 X 151.69 X 150.09	22912	8.573	636.7	27.8	
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	150.36 X 150.81 X 151.53	22676	8.119	602.0	26.5	

ults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 16/11/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 21-10-21

ID : Cement Concrete Pavement - Asraya Layout 6th Cross Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 16/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	149.49 X 151.62 X 150.04	22667	8.997	764.2	33.7	33.1
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	150.16 X 149.57 X 150.94	22460	8.379	747.9	33.3	
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	150.24 X 150.40 X 150.87	22596	8.124	731.6	32.4	

ults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 26/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 21-10-21

ID : Cement Concrete Pavement - Asraya Layout 6th Cross Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 26/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	151.59 X 149.76 X 149.19	22702	8.442	618.8	27.3	26.8
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	151.56 X 151.36 X 151.22	22941	8.666	615.2	26.8	
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	149.45 X 151.90 X 151.24	22702	8.429	599.9	26.4	

ults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2022-04-23-23** **Date: 16/11/2021**
ct Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
cy	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	21-10-21
mer ID	:	Cement Concrete Pavement - Asraya Layout 6th Cross Road
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	16/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	149.54 X 149.39 X 150.66	22340	8.173	751.3	33.6	33.0
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	150.42 X 151.02 X 149.05	22717	8.410	749.2	33.0	
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	150.30 X 149.88 X 149.87	22527	8.652	732.7	32.5	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2022-04-23-23** **Date: 26/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

mer's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 21-10-21

mer ID : Cement Concrete Pavement - Asraya Layout 6th Cross Road

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 26/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	149.39 X 149.43 X 151.93	22323	8.253	621.4	27.8	27.1
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	150.28 X 151.19 X 151.70	22720	8.467	610.3	26.9	
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	151.27 X 151.07 X 149.58	22852	8.397	609.9	26.7	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2022-04-23-23** **Date: 16/11/2021**
ct Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
cy	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	21-10-21
mer ID	:	Cement Concrete Pavement - Asraya Layout 6th Cross Road
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	16/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	149.34 X 149.74 X 150.55	22363	8.342	749.6	33.5	33.2
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	149.90 X 151.06 X 151.37	22645	8.165	753.4	33.3	
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	150.67 X 150.93 X 149.24	22741	9.015	745.8	32.8	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 27/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 22-10-21

er ID : Cement Concrete Pavement - Asraya Layout 8th Cross Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 27/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	151.64 X 149.98 X 151.27	22742	8.970	617.2	27.1	27.3
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	150.27 X 151.32 X 151.95	22739	8.136	628.8	27.7	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	149.87 X 150.07 X 150.40	22491	8.529	606.3	27.0	

ults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23** **Date: 17/11/2021**
Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	22-10-21
mer ID	:	Cement Concrete Pavement - Asraya Layout 8th Cross Road
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	17/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	149.38 X 150.97 X 149.16	22551	8.295	761.9	33.8	33.1
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	151.67 X 149.61 X 149.52	22692	8.486	738.4	32.5	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	151.78 X 149.23 X 149.38	22649	8.297	746.4	33.0	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Quality Manager

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	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
er's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	22-10-21
er ID	:	Cement Concrete Pavement - Asraya Layout 8th Cross Road
Type /Size	:	150X150X150 mm
grade/Age	:	M30 / 7 Days Compressive Strength
ce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	27/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	151.01 X 150.28 X 150.84	22694	8.761	625.8	27.6	27.4
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	151.62 X 151.59 X 149.19	22983	9.006	636.4	27.7	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	150.65 X 149.00 X 151.78	22447	8.489	604.7	26.9	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23** **Date: 17/11/2021**
t Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	22-10-21
mer ID	:	Cement Concrete Pavement - Asraya Layout 8th Cross Road
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	17/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	151.99 X 150.26 X 149.24	22839	8.535	769.3	33.7	33.3
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	149.18 X 150.45 X 149.53	22445	8.177	747.9	33.3	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	150.25 X 150.39 X 151.30	22597	8.876	744.8	33.0	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2022-04-23-23** **Date: 27/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

mer's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 22-10-21

mer ID : Cement Concrete Pavement - Asraya Layout 8th Cross Road

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 27/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	149.32 X 151.60 X 150.67	22638	9.059	616.5	27.2	27.0
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	150.94 X 150.14 X 151.72	22662	8.766	625.7	27.6	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	149.01 X 151.49 X 149.26	22573	8.137	589.3	26.1	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

D	:	**CP-2022-04-23-23** **Date: 17/11/2021**
t Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
g	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	22-10-21
mer ID	:	Cement Concrete Pavement - Asraya Layout 8th Cross Road
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	17/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	150.75 X 149.78 X 151.18	22579	8.819	752.2	33.3	33.0
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	151.83 X 150.09 X 149.58	22790	8.150	763.0	33.5	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	149.10 X 151.02 X 151.15	22517	8.274	725.5	32.2	

esults obtained are satisfactory as per standard requirements.

AEE (VRPL)

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

D	:	**CP-2022-04-23-23** **Date: 28/10/2021**
t Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
y	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	25-10-21
mer ID	:	Cement Concrete Pavement - Kuvempu Nagara 1st Phase
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	28/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	150.44 X 149.96 X 149.41	22561	8.647	624.5	27.7	27.2
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	149.77 X 151.46 X 151.09	22685	8.655	629.5	27.7	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	149.39 X 150.28 X 150.37	22451	9.037	588.6	26.2	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SB

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2022-04-23-23** **Date: 18/11/2021**
ct Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
ry	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	25-10-21
mer ID	:	Cement Concrete Pavement - Kuvempu Nagara 1st Phase
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	18/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	150.08 X 150.85 X 151.98	22638	8.375	748.1	33.0	33.0
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	150.72 X 150.76 X 149.96	22722	8.561	750.8	33.0	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	150.39 X 151.89 X 150.26	22843	8.678	752.0	32.9	

esults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	**CP-2022-04-23-23** **Date: 28/10/2021**
t Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
y	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	23-10-21
mer ID	:	Cement Concrete Pavement - Kuvempu Nagara 1st Phase
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	28/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	150.54 X 151.80 X 149.96	22852	8.134	628.7	27.5	27.1
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	151.62 X 150.53 X 149.33	22822	8.412	620.0	27.2	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	149.29 X 151.96 X 149.77	22686	8.883	607.3	26.8	

esults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2022-04-23-23** **Date: 18/11/2021**
ect Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
ncy	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
of Receipt	:	23-10-21
mer ID	:	Cement Concrete Pavement - Kuvempu Nagara 1st Phase
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	18/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	149.20 X 150.77 X 151.60	22495	9.077	748.9	33.3	32.7
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	149.55 X 151.44 X 150.37	22648	8.941	744.6	32.9	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	150.49 X 151.05 X 150.19	22732	8.726	727.7	32.0	

results obtained are satisfactory as per standard requirements.

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Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

ID : **CP-2022-04-23-23** **Date: 28/10/2021**

ect Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

cy : Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

omer's Reference : BBMP/EE/BTP/WO/143/2019-20

of Receipt : 23-10-21

omer ID : Cement Concrete Pavement - Kuvempu Nagara 1st Phase

ple Type /Size : 150X150X150 mm

ple grade/Age : M30 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 28/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	149.98 X 151.11 X 151.76	22664	8.729	612.8	27.0	26.9
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	151.11 X 149.45 X 150.94	22583	8.593	619.6	27.4	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	150.86 X 150.70 X 151.50	22735	8.158	596.3	26.2	

esults obtained are satisfactory as per standard requirements.

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ID	:	**CP-2022-04-23-23** **Date: 18/11/2021**
ect Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
ncy	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
omer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
of Receipt	:	23-10-21
omer ID	:	Cement Concrete Pavement - Kuvempu Nagara 1st Phase
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	18/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	149.81 X 149.01 X 149.56	22323	8.163	755.4	33.8	33.0
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	151.71 X 151.38 X 149.15	22966	8.901	758.0	33.0	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	149.45 X 150.98 X 150.71	22565	8.878	726.3	32.2	

results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Authorized Signatory
Quality Manager

****End of Report****

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	3 set /16-30 cum	21.05	6	6
9	RCC(M20)	Compressive Strength(7days and 28days)	6 set /100-150 cum	121.36	12	12
10	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	10 set / 300-350 cum	349.59	20	20

Assistant Executive Engineer
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BBMP, Bangalore-97

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-12-29-75** **Date: 05-11-20**
Project Name	:	Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/144/2019-20
Date of Receipt	:	02-11-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-11-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.33	_
2	Finess by Air permeablity method (m^2/kg,Min)	295.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-12-29-75 **Date: 01-12-20**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 02-11-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 03-11-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

**The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-29-75** **Date: 05-11-20**
Project Name	:	Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/144/2019-20
Date of Receipt	:	02-11-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-11-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	389	389	2.6	97.4	90-100
3	20 mm	6965	7354	49.0	51.0	30-70
4	10 mm	4699	12053	80.4	19.6	10-35
5	4.75 mm	2588	14641	97.6	2.4	0-5
6	Pan	359	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-12-29-75** **Date: 05-11-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.6**	
3	Specific Gravity	**2.62**	_
4	Bulk Density(Loose) (Kg/l)	**1.40**	_
5	Bulk Density(Compacted) (Kg/l)	**1.45**	_
6	Water Absorption(%)	**0.28**	_

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-29-75** **Date: 05-11-20**
Project Name	:	Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/144/2019-20
Date of Receipt	:	02-11-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-11-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	258	258	5.2	94.8	90-100
3	10 mm	3185	3443	68.9	31.1	25-55
4	4.75 mm	1405	4848	97.0	3.0	0-10
5	Pan	152	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-12-29-75 **Date: 05-11-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.8**	
3	Specific Gravity	**2.64**	_
4	Bulk Density(Loose) (Kg/l)	**1.42**	_
5	Bulk Density(Compacted) (Kg/l)	**1.47**	_
6	Water Absorption(%)	**0.28**	_
7	Aggregate crushing Value(%)	**23.7**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**25.4**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-12-29-75** **Date: 05-11-20**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 02-11-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-11-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	18	18	1.8	98.2	90-100	90-100	90-100	95-100
3	2.36 mm	128	146	14.6	85.4	60-95	75-100	85-100	95-100
4	1.18 mm	214	360	36.0	64.0	30-70	55-90	75-100	90-100
5	600 micron	201	561	56.1	43.9	15-34	35-59	60-79	80-100
6	300 micron	248	809	80.9	19.1	5-20	8-30	12-40	15-50
7	150 micron	147	956	95.6	4.4	0-10	0-10	0-10	0-15
8	Pan	44	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-12-29-75** **Date: 05-11-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.26	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

**The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2020-12-29-75 **Date: 24-11-20**
Project Name	:	Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/144/2019-20
Date of Receipt	:	21-11-20
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	21-11-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	202	200	16079	33.822	2103.5	2048.8	Not less than 1800Kg/m^3
2	404	199	200	16079	32.866	2044.0		
3	403	203	200	16362	32.706	1998.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2020-12-29-75 Date: 24-11-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	202	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	404	202	201	
3	402	201	203	
4	399	203	200	
5	402	199	201	
6	400	201	202	
7	400	202	202	
8	400	200	199	
9	401	202	199	
10	404	200	202	
11	400	202	199	
12	403	200	202	
13	400	202	201	
14	402	200	202	
15	403	201	200	
16	402	201	200	
17	403	202	203	
18	402	201	203	
19	404	200	202	
20	402	200	202	
Average	**402**	**201**	**201**	

Assistant Executive Engineer
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Lab ID : **CP-2020-12-29-75** **Date: 24-11-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	202	80836	355.8	4.4	4.6
2	404	202	81697	374.4	4.6	
3	402	201	80872	383.7	4.7	
4	399	203	80940	390.4	4.8	
5	402	199	80066	372.3	4.6	
6	400	201	80398	354.3	4.4	
7	400	202	80776	383.4	4.7	
8	400	200	80129	386.8	4.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-12-29-75** **Date: 03-11-20**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 02-11-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 02-11-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

*The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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TEST REPORT OF PRECAST COVER SLAB

ID	:	**CP-2020-12-29-75** **Date: 23-11-20**
ect Name	:	Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
mer's Reference	:	BBMP/EE/BTP/WO/144/2019-20
of Receipt	:	19-11-20
ple Type /Size	:	Precast Cover Slab (100mm)
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
of Test	:	19/11/2020

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

ults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 02/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 27-11-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	PCC	M15	25/11/2020	02/12/2020	150.72 X 150.90 X 150.37	22743	**8.596**	289.0	12.7	12.6
	PCC	M15	25/11/2020	02/12/2020	149.96 X 149.58 X 150.05	22432	**8.051**	275.8	12.3	
	PCC	M15	25/11/2020	02/12/2020	149.30 X 149.33 X 150.16	22295	**8.788**	283.2	12.7	

Results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 23/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 27-11-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
	PCC	M15	25/11/2020	23/12/2020	149.39 X 150.75 X 149.82	22520	8.896	383.3	17.0	17.3
	PCC	M15	25/11/2020	23/12/2020	151.04 X 149.30 X 150.13	22550	8.089	392.5	17.4	
	PCC	M15	25/11/2020	23/12/2020	149.23 X 149.38 X 150.80	22291	8.125	392.7	17.6	

Results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 02/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 27-11-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	25/11/2020	02/12/2020	149.79 X 149.45 X 149.57	22386	8.596	273.9	12.2	12.5
PCC	M15	25/11/2020	02/12/2020	151.19 X 150.53 X 151.95	22759	8.051	282.1	12.4	
PCC	M15	25/11/2020	02/12/2020	149.94 X 151.49 X 149.47	22714	8.788	291.5	12.8	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 23/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 27-11-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	PCC	M15	25/11/2020	23/12/2020	149.78 X 151.62 X 149.17	22709	**8.896**	404.4	17.8	17.8
	PCC	M15	25/11/2020	23/12/2020	150.47 X 150.80 X 149.07	22691	**8.089**	405.9	17.9	
	PCC	M15	25/11/2020	23/12/2020	150.25 X 150.58 X 151.39	22626	**8.125**	403.8	17.8	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 02/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 27-11-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	25/11/2020	02/12/2020	149.43 X 151.99 X 150.16	22713	8.596	285.7	12.6	12.4
2	PCC	M15	25/11/2020	02/12/2020	150.27 X 150.16 X 149.20	22565	8.051	275.5	12.2	
3	PCC	M15	25/11/2020	02/12/2020	150.59 X 149.18 X 151.97	22465	8.788	278.2	12.4	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vijayanagar A Sub Division
BBMP, Bangalore-97

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-12-29-75** **Date: 23/12/2020**

: Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

: BBMP/EE/BTP/WO/144/2019-20

: 27-11-20

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 23/12/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	25/11/2020	23/12/2020	149.05 X 151.67 X 151.07	22607	**8.896**	391.0	17.3	17.3
PCC	M15	25/11/2020	23/12/2020	151.02 X 149.95 X 149.75	22645	**8.089**	396.8	17.5	
PCC	M15	25/11/2020	23/12/2020	150.84 X 149.12 X 151.35	22493	**8.125**	387.0	17.2	

are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 20/11/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 17-11-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/11/2020	20/11/2020	151.01 X 151.06 X 149.39	22812	8.783	423.7	18.6	18.6
2	Drain Bottom Slab Concrete	M20	13/11/2020	20/11/2020	149.61 X 150.53 X 149.31	22521	8.789	412.1	18.3	
3	Drain Bottom Slab Concrete	M20	13/11/2020	20/11/2020	151.03 X 151.72 X 150.79	22914	8.722	433.3	18.9	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 11/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 17-11-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/11/2020	11/12/2020	150.65 X 149.07 X 150.61	22458	**8.508**	521.9	23.2	23.2
2	Drain Bottom Slab Concrete	M20	13/11/2020	11/12/2020	150.59 X 151.63 X 150.62	22834	**8.323**	518.9	22.7	
3	Drain Bottom Slab Concrete	M20	13/11/2020	11/12/2020	150.92 X 151.77 X 150.26	22905	**8.490**	540.4	23.6	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP, Bangalore-97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 20/11/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 17-11-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/11/2020	20/11/2020	151.44 X 149.04 X 151.18	22570	8.783	421.5	18.7	18.6
2	Drain Bottom Slab Concrete	M20	13/11/2020	20/11/2020	151.51 X 149.24 X 150.93	22612	8.789	423.9	18.7	
3	Drain Bottom Slab Concrete	M20	13/11/2020	20/11/2020	150.94 X 149.47 X 151.66	22560	8.722	415.5	18.4	

Remarks: Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 11/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 17-11-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Bottom Slab Concrete	M20	13/11/2020	11/12/2020	151.20 X 151.80 X 151.09	22952	**8.508**	536.2	23.4	23.0
	Drain Bottom Slab Concrete	M20	13/11/2020	11/12/2020	149.01 X 149.09 X 151.20	22215	**8.323**	490.4	22.1	
	Drain Bottom Slab Concrete	M20	13/11/2020	11/12/2020	149.34 X 150.04 X 150.68	22407	**8.490**	530.1	23.7	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-29-75

Date: 20/11/2020

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 17-11-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/11/2020	20/11/2020	151.62 X 151.86 X 150.92	23024	8.783	415.6	18.1	18.3
2	Drain Bottom Slab Concrete	M20	13/11/2020	20/11/2020	150.71 X 151.28 X 151.87	22799	8.789	418.6	18.4	
3	Drain Bottom Slab Concrete	M20	13/11/2020	20/11/2020	151.03 X 150.16 X 151.00	22677	8.722	422.1	18.6	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vijayanagara Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 11/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 17-11-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/11/2020	11/12/2020	150.90 X 149.33 X 151.30	22535	**8.508**	523.4	23.2	23.1
2	Drain Bottom Slab Concrete	M20	13/11/2020	11/12/2020	149.52 X 149.90 X 149.31	22413	**8.323**	505.5	22.6	
3	Drain Bottom Slab Concrete	M20	13/11/2020	11/12/2020	151.77 X 150.47 X 150.72	22837	**8.490**	534.6	23.4	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-29-75 **Date: 24/11/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 19-11-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of Test : 24/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/11/2020	24/11/2020	150.98 X 151.10 X 150.47	22813	8.783	425.9	18.7	18.8
2	Drain Side Wall Concrete	M20	17/11/2020	24/11/2020	149.14 X 151.58 X 151.64	22606	8.789	423.9	18.7	
3	Drain Side Wall Concrete	M20	17/11/2020	24/11/2020	150.58 X 151.89 X 151.27	22870	8.722	433.7	19.0	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 15/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 19-11-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/11/2020	15/12/2020	151.87 X 151.14 X 150.34	22955	**8.508**	549.3	23.9	23.2
2	Drain Side Wall Concrete	M20	17/11/2020	15/12/2020	149.58 X 151.89 X 150.36	22721	**8.323**	504.8	22.2	
3	Drain Side Wall Concrete	M20	17/11/2020	15/12/2020	150.50 X 149.82 X 149.70	22547	**8.490**	528.9	23.5	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

[illegible]	:	CP-2020-12-29-75
		Date: 24/11/2020
[illegible] Name	:	Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.
[illegible]	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
[illegible]'s Reference	:	BBMP/EE/BTP/WO/144/2019-20
[illegible] Receipt	:	19-11-20
[illegible] ID	:	Drain Side Wall Concrete
[illegible] Type /Size	:	150X150X150 mm
[illegible] grade/Age	:	M20 / 7 Days Compressive Strength
[illegible] to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
[illegible]	:	24/11/2020

[illegible]	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Side Wall Concrete	M20	17/11/2020	24/11/2020	151.93 X 151.12 X 151.97	22959	8.783	427.4	18.6	18.7
	Drain Side Wall Concrete	M20	17/11/2020	24/11/2020	149.14 X 151.53 X 151.44	22599	8.789	421.4	18.6	
	Drain Side Wall Concrete	M20	17/11/2020	24/11/2020	151.53 X 149.37 X 150.66	22634	8.722	427.7	18.9	

[illegible] obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75**

Date: 15/12/2020

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 19-11-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Side Wall Concrete	M20	17/11/2020	15/12/2020	151.69 X 149.40 X 150.46	22663	8.508	541.9	23.9	23.4
	Drain Side Wall Concrete	M20	17/11/2020	15/12/2020	150.14 X 149.24 X 150.08	22407	8.323	514.3	23.0	
	Drain Side Wall Concrete	M20	17/11/2020	15/12/2020	149.70 X 149.13 X 150.11	22326	8.490	521.2	23.3	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 24/11/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 19-11-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete	M20	17/11/2020	24/11/2020	150.69 X 150.24 X 149.80	22639	8.783	422.4	18.7	18.4
2	Drain Side Wall Concrete	M20	17/11/2020	24/11/2020	151.69 X 151.63 X 151.01	23001	8.789	416.8	18.1	
3	Drain Side Wall Concrete	M20	17/11/2020	24/11/2020	149.02 X 149.35 X 149.95	22257	8.722	411.7	18.5	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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CIVIL PRO BANGALORE Sig. Date.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 15/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 19-11-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/11/2020	15/12/2020	151.93 X 149.54 X 151.09	22720	**8.508**	528.1	23.2	22.9
2	Drain Side Wall Concrete	M20	17/11/2020	15/12/2020	150.82 X 150.61 X 150.51	22715	**8.323**	504.0	22.2	
3	Drain Side Wall Concrete	M20	17/11/2020	15/12/2020	149.84 X 149.57 X 150.50	22412	**8.490**	518.5	23.1	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 09/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 04-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/12/2020	09/12/2020	151.42 X 150.36 X 149.50	22767	8.397	589.5	25.9	25.5
2	Cement Concrete Pavement	M30	02/12/2020	09/12/2020	151.91 X 149.67 X 150.78	22737	8.139	596.7	26.2	
3	Cement Concrete Pavement	M30	02/12/2020	09/12/2020	149.61 X 149.11 X 150.75	22309	8.478	541.5	24.3	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig. Date. BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 30/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 04-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/12/2020	30/12/2020	151.13 X 149.93 X 149.09	22659	8.926	757.4	33.4	
2	Cement Concrete Pavement	*M30*	*02/12/2020*	*30/12/2020*	149.39 X *151.30 X* 149.72	*22602*	*8.780*	*733.9*	*32.5*	*33.1*
3	Cement Concrete Pavement	M30	02/12/2020	30/12/2020	149.29 X 151.44 X *150.99*	22609	8.558	752.8	33.3	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 09/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 04-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of Test : 09/12/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	02/12/2020	09/12/2020	150.64 X 150.88 X 151.90	22729	**8.397**	587.5	25.8	25.9
Cement Concrete Pavement	M30	02/12/2020	09/12/2020	151.47 X 150.33 X 150.27	22771	**8.139**	612.9	26.9	
Cement Concrete Pavement	M30	02/12/2020	09/12/2020	149.09 X 151.80 X 151.03	22632	**8.478**	565.0	25.0	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 30/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 04-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : *IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5*

Date of Test : 30/12/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement	M30	02/12/2020	30/12/2020	149.01 X 149.06 X 150.12	22212	**8.926**	736.3	33.1	33.2
Cement Concrete Pavement	M30	02/12/2020	30/12/2020	151.25 X 150.31 X 149.32	22734	**8.780**	743.9	32.7	
Cement Concrete Pavement	M30	02/12/2020	30/12/2020	151.51 X 151.54 X *150.01*	22959	**8.558**	773.2	33.7	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vijayanagara Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 09/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 04-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/12/2020	09/12/2020	150.03 X 151.00 X 149.67	22653	**8.397**	571.8	25.2	25.4
2	Cement Concrete Pavement	M30	02/12/2020	09/12/2020	151.96 X 149.16 X 149.26	22666	**8.139**	598.9	26.4	
3	Cement Concrete Pavement	M30	02/12/2020	09/12/2020	151.26 X 150.53 X 150.10	22769	**8.478**	557.5	24.5	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-12-29-75 **Date: 30/12/2020**
Project Name	:	Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/144/2019-20
Date of Receipt	:	04-12-20
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/12/2020

Sl. No	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Cement Concrete Pavement	M30	02/12/2020	30/12/2020	149.04 X 149.26 X 149.58	22246	8.926	745.8	33.5	33.3
2	Cement Concrete Pavement	M30	02/12/2020	30/12/2020	149.48 X 151.48 X 151.25	22643	8.780	738.4	32.6	
3	Cement Concrete Pavement	M30	02/12/2020	30/12/2020	151.19 X 150.03 X 150.58	22683	8.558	766.0	33.8	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vijayanagara Sub Division
BBMP, Bangalore-57

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Authorized Signatory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 10/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 05-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2020	10/12/2020	149.61 X 150.65 X 150.84	22539	8.397	573.8	25.5	25.7
2	Cement Concrete Pavement	M30	03/12/2020	10/12/2020	151.76 X 151.64 X 149.26	23013	8.139	620.4	27.0	
3	Cement Concrete Pavement	M30	03/12/2020	10/12/2020	151.19 X 150.52 X 149.02	22757	8.478	564.3	24.8	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

CIVIL Pro Sig. Date BANGALORE

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R KARTHIK RECHAN
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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75**

Date: 31/12/2020

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 05-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	149.69 X 151.15 X 151.28	22626	8.926	755.8	33.4	33.0
2	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	150.76 X 150.35 X 149.55	22667	8.780	729.2	32.2	
3	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	151.20 X 151.35 X 151.04	22883	8.558	762.8	33.3	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 31/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 05-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	150.27 X 151.62 X 149.14	22784	**8.926**	770.5	33.8	33.4
	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	151.48 X 150.09 X 150.78	22735	**8.780**	741.2	32.6	
	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	150.49 X 150.31 X 150.39	22620	**8.558**	766.6	33.9	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub-Division
BBMP, Bangalore-97

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 10/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 05-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2020	10/12/2020	150.46 X 149.40 X 151.45	22479	**8.397**	562.8	25.0	25.4
2	Cement Concrete Pavement	M30	03/12/2020	10/12/2020	149.90 X 151.63 X 151.44	22730	**8.139**	607.6	26.7	
3	Cement Concrete Pavement	M30	03/12/2020	10/12/2020	149.30 X 149.46 X 149.15	22315	**8.478**	544.0	24.4	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura T.S. Division
BBMP, Bangalore-97

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 31/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : *BBMP/EE/BTP/WO/144/2019-20*

Date of Receipt : 05-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	151.88 X 149.33 X 151.30	22681	8.926	765.1	33.7	33.1
2	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	150.99 X 149.06 X 151.98	22507	8.780	725.9	32.3	
3	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	149.18 X 150.24 X 151.93	22414	8.558	748.2	33.4	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 11/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 06-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/12/2020	11/12/2020	150.00 X 151.30 X 149.83	22695	**8.397**	579.2	25.5	25.3
2	Cement Concrete Pavement	M30	04/12/2020	11/12/2020	150.59 X 150.20 X 151.25	22619	**8.139**	590.3	26.1	
3	Cement Concrete Pavement	M30	04/12/2020	11/12/2020	150.23 X 151.55 X 151.84	22767	**8.478**	554.7	24.4	

Results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

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Date
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R KARTHIK RECHAN
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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-12-29-75** **Date: 01/01/2021**
Project Name	:	Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/144/2019-20
Date of Receipt	:	06-12-20
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Cement Concrete Pavement	M30	04/12/2020	01/01/2021	150.29 X 150.21 X 150.38	22574	**8.926**	764.6	33.9	33.5
2	Cement Concrete Pavement	M30	04/12/2020	01/01/2021	149.79 X 151.87 X 149.97	22748	**8.780**	750.0	33.0	
3	Cement Concrete Pavement	M30	04/12/2020	01/01/2021	150.39 X 151.73 X 151.02	22819	**8.558**	768.6	33.7	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP, Bangalore-97

CIVIL Pro Sig. Date. BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-29-75 **Date: 11/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 06-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/12/2020	11/12/2020	150.00 X 149.98 X 151.92	22497	8.397	581.0	25.8	25.7
2	Cement Concrete Pavement	M30	04/12/2020	11/12/2020	149.66 X 151.24 X 149.75	22635	8.139	600.3	26.5	
3	Cement Concrete Pavement	M30	04/12/2020	11/12/2020	150.87 X 149.82 X 149.24	22604	8.478	560.6	24.8	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 01/01/2021**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 06-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/12/2020	01/01/2021	149.64 X 151.72 X 149.81	22703	8.926	770.1	33.9	33.5
2	Cement Concrete Pavement	M30	04/12/2020	01/01/2021	151.81 X 151.39 X 150.16	22983	8.780	748.2	32.6	
3	Cement Concrete Pavement	M30	04/12/2020	01/01/2021	149.17 X 150.63 X 150.72	22470	8.558	761.6	33.9	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-29-75 **Date: 11/12/2020**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 06-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/12/2020	11/12/2020	150.93 X 150.86 X 150.73	22769	**8.397**	579.9	25.5	25.6
2	Cement Concrete Pavement	M30	04/12/2020	11/12/2020	151.20 X 151.16 X 151.93	22856	**8.139**	611.1	26.7	
3	Cement Concrete Pavement	M30	04/12/2020	11/12/2020	151.66 X 151.13 X 149.45	22922	**8.478**	566.4	24.7	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-12-29-75** **Date: 01/01/2021**

Project Name : Improvements to Roads and Drains at Mariyamma Block and Surrounding Area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/144/2019-20

Date of Receipt : 06-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/12/2020	01/01/2021	151.79 X 149.16 X 150.25	22642	**8.926**	762.6	33.7	33.4
2	Cement Concrete Pavement	M30	04/12/2020	01/01/2021	150.56 X 151.84 X 150.32	22861	**8.780**	752.0	32.9	
3	Cement Concrete Pavement	M30	04/12/2020	01/01/2021	149.66 X 150.14 X 151.45	22471	**8.558**	754.7	33.6	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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